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Contract 3481

SUBJECT: Material Inspection Report

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25X1A 1. On 22 April 1964, [redacted] was visited for the purpose of conducting a material acceptance inspection of 2,500 units of the Sequential Burning Fuzee.

2. Inspection was conducted on the basis of Specification No. 413, dated 22 October 1963. Final packaging of the units had not been accomplished as the Contractor was still awaiting receipt of the printed instructions to be packaged with each unit. For the purpose of the inspection, however, the Contractor did "final package" twenty-four units at the request of the inspector so that the drop test and waterproof test could be performed.

3. For purposes of the inspection, the production of 2,500 units was divided into twelve (12) lots of 200 units each and one lot of 100 units. A five percent sample was selected at random from each of the lots.

4. The sample units were visually inspected for conformance with the Specification. It was noted that two heavy wire staples had been substituted for the two brads in fabricating the base assembly. This substitution resulted in an equal if not superior assembly and was approved.

5. All fugee sections were red and a red dot of paint had been applied to the top of each fiber cannister.

6. Twenty units were drop tested. In four instances the inner paper envelope of the packaging ruptured slightly at one end. The units experienced no damage.

7. Four packaged units were subjected to a water submergence test for two hours. None experienced any visible leakage.

8. Sixty-three units were ignited and burned. Five units exhibited poor ignition qualities and had to be re-ignited. This problem was attributed to the fact that the same striking cap was used a number of times. No

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problem was experienced with lighting whenever a fresh cap was used. Six units failed to transfer from the first to the second section and four units failed to transfer from the second to the third section. Examination of the units that failed indicated that the first fire material ignited and burned but that the transfer into the fuzee base material did not occur. This could be corrected on future production runs by improving the quality of the first fire material if desired, at an additional cost probably.

9. An average burning time of 36 minutes with a minimum of 34 minutes and a maximum of 39 minutes was noted. A mean light intensity of 160-200 foot candles was obtained. In one instance the light intensity dropped to approximately 32 foot candles for slightly more than 60 seconds during a transfer period.

10. A total of sixteen rejectable defects were noted. However, in no instance were there more than two such defects in the sample from any one lot. As a result, all lots were judged to be acceptable and the Contractor was instructed to complete final packaging as soon as the instruction sheets were received and to ship the items [redacted]

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